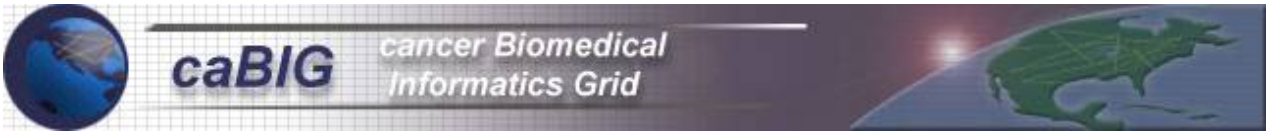


Integrative Cancer Research Breakout Session Summary Notes
caBIG Kickoff Meeting
February 19-20, 2004

This summary provides an overview of the key agreements in principle, discussion points, priorities and possible products for the Integrative Cancer Research Workspace - as discussed during the caBIG Kickoff Meeting breakout sessions. Further information on the Integrative Cancer Research Workspace activities will continue to be made available as the caBIG initiative moves forward. Please feel free to comment on these notes. If you are a registered caBIG participant and you have any comments or questions, please post them to the caBIG Forum at the following URL: http://ncicbforums.nci.nih.gov/cabigforum. If you are not a registered caBIG participant, please send any comments to adamsm@mail.nih.gov

Overview

The Integrative Cancer Research (ICR) Workspace convened to discuss opportunities and means for developing shared infrastructure for collecting and integrating biomedical informatics data. The breadth of the data and tools available to researchers was demonstrated in the two days of presentations and discussions, as was the number of opportunities for collaboration and interaction between the participating Cancer Centers. Most of the two days were spent in presentations from the Developer and Adopter sites, leading to the identification of several areas of shared interest, and an agreement to follow up in more detail in the special interest groups defined by those shared interests.

Agreed Upon Principles:

During formal discussions, and throughout the presentations, members of the Integrative Cancer Research Workspace came up with several principles and operating requirements in order to facilitate productive work within the group and in the caBIG initiative as a whole.

1. Close communication with the other Workspaces was a requirement
    a. Recommended a specific point of contact would be needed
    b. Perhaps provided by a Center with members in both the ICR and the other Workspaces
2. Training and documentation of systems and tools was important
    a. Training portal for capturing everything, especially Architecture Workspace information on standards and development techniques
    b. Specific points of contact between the Developers within each of the Cross Cutting Workspaces
3. Communications of the Workspace participants should include a range of materials
    a. Publications (application notes, white papers, peer-reviewed journal articles, etc.)
    b. Software and systems documentation (database and UML schemas, code samples, etc.)
    c. Clear and standardized API documentation
    d. Dedicated journal issues or meeting sessions on caBIG/ICR activities
4. Request for a dynamic, living list of ICR/caBIG projects, with a place for details, reviews, software upload, etc.
5. Mandated contract artifacts to shared, including regular progress reports, synopsis of same)

6. Regular teleconference/video conferences of Workspace special interest groups
7. Conference calls monthly for ICR Working Group.

Due to the limitations on free discussion time imposed by the presentation schedule, it was decided that the special interest groups convened around specific types of tools and data would work on the evaluation, and development of requirements, scope and sequencing around the specific tools and data within those groups. Since the groups had already identified (draft) shared interest in tools between the included Developers and Adopters, a framework for the collaborations underlying those discussions would develop from those identifications.

The special interest groups are listed below. An asterisk * next to the role indicates this is not the Center's assigned ICR role, but would like to play this role, unfunded, in the subgroup.

Microarray Repository	Role	Tools
Chicago	Developer	Madam
Iowa	Developer	Clinical Expression Database
Washington	Developer	Chip DB
CCR	Developer	MADB
UNC	Adopter*	Microarray Analysis Tools caARRAY
Florida	Adopter	Microarray Analysis Tools
San Francisco	Adopter*	caARRAY
Jefferson	Adopter*	FCCC LIMS/Iowa
Sloan	Adopter	General interest
Wistar	Adopter	caARRAY
Penn	Adopter	Basic Database
Burnham	Adopter*	Promoter caARRAY and other equivalents
NYU	Adopter	caARRAY Other tools
Pittsburgh	Adopter*	caARRAY

Data Analysis + Statistical Methods	Role	Tools
Dartmouth	Developer	Q5
Duke	Developer	Wrapping statistical methods in Java Proteomics
Georgetown	Developer	Visda and other tools
San Francisco	Developer	Magellan
UNC	Developer	Batch and Platform Normalization
Fox Chase	Developer	FGDP
Wistar	Developer*	Supervised Classification
CCR	Developer Adopter	Machine Learning Algorithms
Pittsburgh	Adopter* Developer*/Adopter* Developer* Developer* Adopter*	Virtual LCM CaARRAY GEDA Proteomics Analysis Pipeline DWD
Washington	Adopter*	Any that can be wrapped up to be compatible
Sloan	Adopter	
Penn	Adopter	
Columbia		
NYU	Adopter	FGDP Iowa Others

Proteomics	Role	Tools
Dartmouth	Developer	Q5
Duke	Developer	Statistical Methods
Fox Chase	Developer	FCCC LIMS
Washington	Developer	Could help with LIMS

Florida	Adopter	FCCC LIMS System
Chicago	Adopter*	FCCC LIMS
Jefferson	Adopter*	FCCC LIMS/Iowa
Oregon	Adopter	LIMS?/Cross platform issues
Penn	Adopter	FCCC LIMS
Columbia		

Gene Annotation	Role	Tools
Duke	Developer	XML CDNA Annotation Tool
Georgetown	Developer	PIR
Chicago	Developer	SEED
Iowa	Developer	Custom Sequencing Analysis
Cold Spring Harbor	Developer	Model Organism Database HAPMAP Promoter Database
Washington	Developer	Chip DB
Burnham	Developer	Cancer Molecular Pages-Structural biology
CCR	Developer	GoMINER MatchMINER
Sloan	Adopter	General
Penn	Adopter	
Pittsburgh	Adopter*	HAP MAP

Pathways	Role	Tools
Georgetown	Developer	PIR
San Francisco	Developer	QPACA
Cold Spring Harbor	Developer	GKB
Sloan	Developer	Biopax cpath cytoscape
CCR	Developer	MIMminer (Kohn MIMs)
Chicago	Adopter*	
UNC	Adopter*	
Duke	Adopter*	
Oregon	Adopter	UCSF QPACA, Sloan, NCICB biocarta data
Wistar	Adopter	
Penn	Adopter	
Columbia		
Pittsburgh	Adopter*	ALL

Translational (Clinical Integration)	Role	Tools
Iowa	Developer	Clinical Expression Database Target Prioritization CDOCS (Ontology consensus)
Jefferson	Developer	Assorted tools with clinical trial research models
Washington	Developer	No specifics
Florida	Adopter	
Georgetown	Adopter*	
Fox Chase	Adopter*	Clinical Expression Database Target Prioritization CDOCS (Ontology consensus)
Sloan	Adopter	No specifics
Oregon	Adopter	Iowa for CDOCS and possibly clinical expression
Wistar	Adopter	Clinical Expression Database
Penn	Adopter	
NYU	Adopter	Interfaces (Iowa, FGDP, and in general)
Pittsburgh	Developer*	Virtual Clinical Assistant
UNC	Adopter	Clinical Expression Database

Computational Genomics	Role	Tools
Duke	Developer	Probe picker Service workflows
Washington	Developer	Mutational Profile
UNC	Adopter*	Probe Picker
Penn	Adopter	

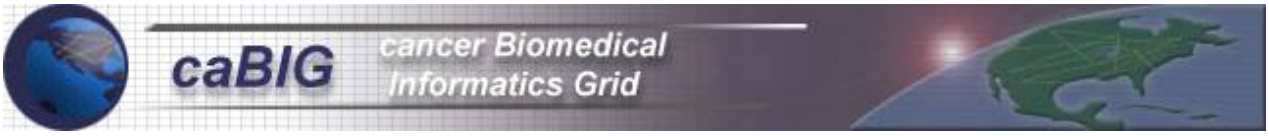
Columbia		
NYU	Adopter	

Collaborative Tools		
Videoconferencing		
Chicago	Developer	Access Grid
Iowa	Developer	CDOCS (Ontology consensus)
Cold Spring Harbor	Developer	MOBY DAS
Jefferson	Developer	Chip Arrays (MAGGIE) Data Distribution tool
Oregon	Adopter	Chicago Access Grids Cold Spring Harbor
Dartmouth	Adopter	Chicago Access Grids Cold Spring Harbor
Penn	Adopter	Organization and evaluation
NYU	Adopter	

Future Discussion/Action Items:

Future discussion/action items included:

Compile and provide table of Special Interest Groups, with Developer and Adopter interests by tool.	March	caBIG Project Team
Schedule teleconferences for Special Interest Groups	April	caBIG Project Team
Create Special Interest Group sub-forums of ICR caBIG Forum	March	caBIG Project Team
Create a ICR-specific Listserv	March	caBIG Project Team
Create a spreadsheet that includes very basic information about each tool: ▪ Maturity ▪ Implementation languages ▪ Kind of product (data, API, standalone application, service) ▪ Where the tool can be accessed/downloaded		caBIG Project Team



Integrative Cancer Research Breakout Session Attendees
caBIG Kickoff Meeting
February 19-20, 2004

Facilitator: Carl Schaefer/NCI (Pathway Resources CGAP)

Cancer Center Name	Representative Name(s)
Burnham Institute	Kutbuddin Doctor
Cold Spring Harbor	Adrian Arva Brian Gilman
Columbia University	Andrea Califano
Dartmouth University – Norris Cotton	David Jewell
Duke University	Patrick McConnell
Fox Chase Cancer Center	Tom Moloshok Michael Ochs
Georgetown University - Lombardi	Bob Clarke Jieping Li Joseph Wang
GU-Catholic University of America	Jason Xuan
Institute for Cancer Prevention	J. Kroll Edith Zang
Mayo Clinic	Mathieu Wiepert
Memorial Sloan Kettering	Gary Bader
Meyer L. Printis - Karmanos	Richard Rauscher
New York University	Judith Goldberg
Northwestern University	Lihua Zhua
Ohio State University Cancer Center	Scott Oster
Oregon Health & Science University	Shannon McWeeney Edwin Quick
Thomas Jefferson University - Kimmel Cancer Center	Devjani Chatterjee Jack London
University of California - San Francisco	Ajay Jain
University of Chicago	Marsha Rosner Terry Disz
University of Iowa - Holden	Terry Braun
University of Michigan	Arul Chinnatin
University of North Carolina	George Wu
University of North Carolina - Lineberger	Steve Marron
University of Pennsylvania/Abramson	Don Baldwin
University of Pittsburgh Medical Center	James Lyons-Weiler
University of South Florida - Moffitt	Steve Enkemann
Vermont Cancer Center	Jeffrey Bond
Virginia Polytechnic Institute-GU	Joseph Yuewang
Washington University - Siteman	Rakesh Nagarajan Brian Springer

Wistar Institute	Louise Showe Michael Showe Andrey Loboda Michael Nebozhyn
Patient Advocates	**Name(s)**
Women's Cancer Advocacy Network	Margaret Borwhat
Private Industry Representatives	**Name(s)**
Translational Genomics Research Institute	Dominik Hoffmann
NCI Representatives	**Name(s)**
NCI	Nina Goodman/CSD Braden Greer/CCR Lynette Grouse/OCG Mervi Heiskanen/NCICB David Kane/CCR Jared Khan/CCR Subha Madhavan/NCICB Joshua Phillips/NCICB John Powell/CCR Ilya Preygel/NCICB Jani Sunil/Office of Communications John Weinstein/CCR
caBIG Project Team Coordinators	**Name(s)**
Booz Allen Hamilton	Mark Adams

Workspace Working Group	Funded Members
Domain Workspace Working Group – Integrative Cancer Research	• Vanderbilt University – Ingram • Columbia University – Herbert Irving • Meyer L. Prentis – Karmanos • University of Michigan • Northwestern University – Robert H. Lurie *Plus representatives from each Developer and Adopter site*